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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/810,174

03/26/2004

Suchit Kaura

ORCL-2003-139-01

7993

45591

7590

12/10/2008

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EXAMINER

AHLUWALIA, NAVNEET K

ART UNIT

PAPER NUMBER

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/810,174	<b>Applicant(s)</b> KAURA ET AL.	
	<b>Examiner</b> NAVNEET K. AHLUWALIA	<b>Art Unit</b> 2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 October 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/02/2008 has been entered.

### ***Response to Arguments***

2. Claims 1 – 22 are pending in this Office Action. After a further search and a thorough examination of the present application, claims 1 – 22 remain rejected. Applicant's arguments with respect to claims 1 – 22 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2166

4. Claims 1 – 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lord et al. ('Lord' herein after) (US 20030028514 A1) further in view of Miloushev et al. ('Miloushev' herein after) (US 2004/0133577 A1).

With respect to claim 1,

Lord discloses a method of providing shared objects and node-specific objects in a cluster file system (Figure 3, Lord), said method comprising: installing a particular shared object in said cluster file system at a point in time after said installation providing to said particular shared object an attribute that indicates any object created in said particular shared object from this point in time will be designated as node-specific while any object existing in said particular shared object prior to providing said attribute maintains designation as shared (page 6 paragraph 0096, Lord); and when a node causes a file system operation that is node-specific to be performed by accessing said particular shared object, performing said file system operation in an alternate directory corresponding to said node (page 6 paragraph 0100, Lord), wherein said alternate directory supports a node-specific object wherein any object designated as shared in said particular shared object is available to a plurality of nodes, and wherein any object designated as node-specific in said particular shared object is available solely to a corresponding node of said nodes wherein said performing said file system operation in said alternate directory includes associating a pointer with said particular shared object and using said pointer to point to a table having alternate directory information for each node (paragraphs 38, 70 – 72 and 135, Lord).

Lord does not teach in detail of the pointer to a table in alternate directory as claimed.

Miloushev however teaches the pointer to a table in an alternate directory as claimed in paragraphs 190 and 427 – 429.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because both applications are in the same field of study related with files, file systems and their structure along with use. Furthermore, Miloushev in its rule based aggregations and switched file system teaches in detail about the pointers in the directories which helps in optimization of storage of data in Lord and makes for faster access.

5. Claims 2 – 7 are rejected based on the same rationale as for claim 1 above. Further, for detailed citations see below.

With respect to claim 2,

Lord as modified discloses the method as recited in claim 1 wherein said particular shared object is a container-type shared object (paragraphs 0035 and 0070, Lord).

With respect to claim 3,

Lord as modified discloses the method as recited in claim 1 wherein said particular shared object is a directory (Figure 7, paragraphs 0070 and 0084, Lord).

With respect to claim 4,

Lord as modified discloses the method as recited in claim 1 wherein said performing said file system operation in said alternate directory further includes: if said alternate directory information for said node indicates that said alternate directory has not been created, creating said alternate directory for said node and updating said table with a location of said alternate directory (paragraphs 103, 123, Lord).

With respect to claim 5,

Lord as modified discloses the method as recited in claim 1 wherein said file system operation that is node-specific includes creating one of a node-specific file and a node-specific directory (paragraphs 0096 – 0097, Lord).

With respect to claim 6,

Lord as modified discloses the method as recited in claim 5 wherein said file system operation that is node-specific includes modifying one of said node-specific file and said node-specific directory (paragraph 0101, Lord).

With respect to claim 7,

Lord as modified discloses the method as recited in claim 5 wherein said file system operation that is node-specific includes deleting one of said node-specific file and said node-specific directory (paragraphs 0079, 0143, Lord).

With respect to claim 8,

Lord discloses a computer-readable medium comprising computer-executable instructions stored therein for performing a method of providing shared objects and node-specific objects in a cluster file system (Figure 3, Lord), said method comprising: installing a particular shared object in said cluster file system at a point in time after said installation providing to a particular shared object an attribute that indicates any object created in said particular shared object from this point in time will be designated as node-specific while any object existing in said particular shared object prior to providing said attribute maintains designation as shared (page 6 paragraph 0096, Lord); and when a node causes a file system operation that is node-specific to be performed by accessing said particular shared object, performing said file system operation in an alternate directory corresponding to said node, wherein said alternate directory supports a node-specific object (page 6 paragraph 0100, Lord), wherein any object designated as shared in said particular shared object is available to a plurality of nodes, and wherein any object designated as node-specific in said particular shared object is available solely to corresponding node of said nodes wherein said performing said file system operation is said alternate directory includes associating a pointer with said particular shared object and using said pointer to point to a table having alternate directory information for each node (paragraphs 38, 70 – 72 and 135, Lord).

Lord does not teach in detail of the pointer to a table in alternate directory as claimed.

Miloushev however teaches the pointer to a table in an alternate directory as claimed in paragraphs 190 and 427 – 429.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because both applications are in the same field of study related with files, file systems and their structure along with use. Furthermore, Miloushev in its rule based aggregations and switched file system teaches in detail about the pointers in the directories which helps in optimization of storage of data in Lord and makes for faster access.

6. Claims 9 – 14 are rejected based on the same rationale as for claim 8 above. Further, for detailed citations see below.

With respect to claim 9,

Lord as modified discloses the computer-readable medium as recited in claim 8 wherein said particular shared object is a container-type shared object (paragraphs 0035 and 0070, Lord).

With respect to claim 10,

Lord as modified discloses the computer-readable medium as recited in claim 8 wherein said particular shared object is a directory (Figure 7, paragraphs 0070 and



Art Unit: 2166

0084, Lord).

With respect to claim 11,

Lord as modified discloses the computer-readable medium as recited in claim 8 wherein said performing said file system operation in said alternate directory further includes: if said alternate directory information for said node indicates that said alternate directory has not been created, creating said alternate directory for said node and updating said table with a location of said alternate directory (paragraphs 103, 123, Lord).

With respect to claim 12,

Lord as modified discloses the computer-readable medium as recited in claim 8 wherein said file system operation that is node-specific includes creating one of a node-specific file and a node-specific directory (paragraphs 0096 – 0097, Lord).

With respect to claim 13,

Lord as modified discloses the computer-readable medium as recited in claim 12 wherein said file system operation that is node-specific includes modifying one of said node-specific file and said node-specific directory (paragraph 0101, Lord).

With respect to claim 14,

Lord as modified discloses the computer-readable medium as recited in claim 12 wherein said file system operation that is node-specific includes deleting one of said node-specific file and said node-specific directory (paragraphs 0079, 0143, Lord).

With respect to claim 15,

Lord discloses a system comprising: a cluster having a plurality of nodes, a mass storage device coupled to said cluster (Figure 3, Lord); and a cluster file system configured to automatically support for node-specific objects in a shared object, wherein said cluster file system is configured to provide to said shared object an attribute that indicates any object created in said shared object from this point in time will be designated as node specific while any object existing in said shared (paragraphs 96 and 100, Lord), wherein any object designated as shared in said shared object is available to said nodes, and wherein any object designated as node-specific in said shared object is available solely to a corresponding node of said nodes wherein when one of said nodes causes a file system operation that is node-specific to be performed by accessing said shared object, said cluster file system performs said file system operation in an alternate directory corresponding to said node, wherein said cluster file system associates a pointer with said shared object, wherein said cluster file system uses said pointer to point to a table having alternate directory information for each node (paragraphs 38, 70 – 72 and 135, Lord).

Art Unit: 2166

Lord does not teach in detail of the pointer to a table in alternate directory as claimed.

Miloushev however teaches the pointer to a table in an alternate directory as claimed in paragraphs 190 and 427 – 429.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because both applications are in the same field of study related with files, file systems and their structure along with use. Furthermore, Miloushev in its rule based aggregations and switched file system teaches in detail about the pointers in the directories which helps in optimization of storage of data in Lord and makes for faster access.

7. Claims 16 – 22 are rejected based on the same rationale as for claim 15 above. Further, for detailed citations see below.

With respect to claim 16,

Lord as modified discloses the system as recited in claim 15 wherein said alternate directory supports a node-specific object (paragraphs 96 and 100, Lord).

With respect to claim 17,

Lord as modified discloses the system as recited in claim 16 wherein if said alternate directory information for said node indicates that said alternate directory has not been created, said cluster file system creates said alternate directory for said node

Art Unit: 2166

and updates said table with a location of said alternate directory (paragraphs 103, 123, Lord).

With respect to claim 18,

Lord as modified discloses the system as recited in claim 16 wherein said file system operation that is node-specific includes creating one of a node-specific file and a node-specific directory (paragraphs 0096 – 0097, Lord).

With respect to claim 19,

Lord as modified discloses the system as recited in claim 18 wherein said file system operation that is node-specific includes modifying one of said node-specific file and said node-specific directory (paragraph 0101, Lord).

With respect to claim 20,

Lord as modified discloses the system as recited in claim 18 wherein said file system operation that is node-specific includes deleting one of said node-specific file and said node-specific directory (paragraphs 0079, 0143, Lord).

With respect to claim 21,

Lord as modified discloses the system as recited in claim 15 wherein said particular shared object is a container-type shared object (paragraphs 0035 and 0070, Lord).

With respect to claim 22,

Lord as modified discloses the system as recited in claim 15 wherein said particular shared object is a directory (Figure 7, paragraphs 0070 and 0084, Lord).

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navneet K. Ahluwalia whose telephone number is 571-272-5636.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam T. Hosain can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Navneet K. Ahluwalia  
Examiner  
Art Unit 2166

Dated: 12/06/2008

/Khanh B. Pham/  
Primary Examiner, Art Unit 2166